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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/762,913	01/22/2004	Steve Wang	15436.269.1	6148	
75	90 03/11/2005		EXAMINER		
Eric Maschoff WORKMAN NYDEGGER			ERDEM, FAZLI		
1000 Eagle Gate Tower			ART UNIT	PAPER NUMBER	
60 East South Temple			2826		
Salt Lake City, UT 84111			DATE MAILED: 03/11/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

				<u> </u>			
		Application No.	Applicant(s)				
Office Action Summary		10/762,913	WANG ET AL.				
		Examiner	Art Unit				
		Fazli Erdem	2826				
Period 1	The MAILING DATE of this communication appoint in Reply	pears on the cover sheet with the c	orrespondence address	s			
THE - Ext afte - If th - If N - Fai Any	HORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 for SIX (6) MONTHS from the mailing date of this communication. he period for reply specified above is less than thirty (30) days, a repl O period for reply is specified above, the maximum statutory period fure to reply within the set or extended period for reply will, by statute or reply received by the Office later than three months after the mailing ned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	mely filed  /s will be considered timely.  the mailing date of this communi ED (35 U.S.C. § 133).	ication.			
Status							
1)🖂	Responsive to communication(s) filed on <u>06 D</u>	<u>ecember 2004</u> .					
2a) <u></u>							
3)[	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposi	tion of Claims						
4)⊠	Claim(s) <u>1-3 and 20</u> is/are pending in the application.						
·	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠	Claim(s) 9-20 is/are allowed.						
· —	Claim(s) 1-3 is/are rejected.						
· —	Claim(s) <u>5-8</u> is/are objected to.						
8)	Claim(s) are subject to restriction and/or election requirement.						
Applicat	tion Papers						
9)	The specification is objected to by the Examine	er.					
_	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
, _	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.05(a).						
11)	The oath or declaration is objected to by the Ex						
	under 35 U.S.C. § 119						
12)□	Acknowledgment is made of a claim for foreign	priority under 35 H.S.C. & 110(a)	\-(d) or (f)				
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
٠,	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority document		on No				
	3. Copies of the certified copies of the prior			0			
	application from the International Bureau		o in this realional Stage	J			
* ;	See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	ed.				
Attachmer	• *	_					
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)		4) ☐ Interview Summary Paper No(s)/Mail Da					
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date		ratent Application (PTO-152)				

Application/Control Number: 10/762,913 Page 2

Art Unit: 2826

## **DETAILED ACTION**

## Allowable Subject Matter

- 1. Claims 9-20 allowed.
- 2. Claims 5-8 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3 rejected under 35 U.S.C. 103(a) as being unpatentable over Yokouichi et al. (5,973,339) in view of Davids et al. (2003/0161571) further in view of Dijaili et al. (6,577,654) Regarding Claims 1-3, Yokouichi et al. disclose a semiconductor photodetector having an optical attenuator where in Fig. 2, layer 30 is InP substrate, layer 11 is optical absorption layer and layer 21 is attenuator layer. Incident light 40 is attenuated by the left half attenuation section 20 and passed onto right half photosensitive section. Yokouchi et al. fail to disclose the required relationship between the attenuating layer and the detecting layer and the required PIN/APD diode. However, Davids et al. disclose an integrated photodevice and waveguide where in Fig. 6A, attenuation layer 18 is between detecting layer 12 and waveguide 28. Furthermore, Dijaili et al. disclose optical signal power monitor and regulator where the required PIN diode structure is specified in Claim 9.

Application/Control Number: 10/762,913

Art Unit: 2826

It would have been obvious to one of having ordinary skill in the art at the time

Page 3

the invention was made to include the required relationship between the attenuation layer

and the detection layer and the required PIN diode in order to have an optical

photodevice with better performance.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The

examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FE

March 6, 2005

STATUANI DELVAIA

UPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800